<110> Liew, Choong-Chin

<120> Method for the Detection of Cancer Related Gene Transcripts in Blood

<130> 4231/2055M

<140> US 10/812,797
<141> 2004-03-30

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<150> US 10/601,518
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<150> US 09/477,148
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<170> PatentIn version 3.2

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cccacatttc catttttaat atatactgtg ctttacaaat attataatat gttttaaaat    180

atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaaa ataagcattc    240

tttgaatata tatttagttt tttaatgtgg taggaaaatc aaagccagag ggagtagaaa    300

caaaatttgt gattttctaa atacttcttg gctgcaggga agaaaccacg tcccaggcga    360

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accaagatgg tcaacaga                                                 438


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aaaggggggaa ggcccccaaa accgggggggg gggnaaaaag gtgggtttcc cccttttttcc    180

aattcccaaa accaatttcc aaaaggnaaa ccaaccnttc ccaaaatggg aaagg           235


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caaattggggg ggnaaaccaa atttaagggg ggaaggggggg gnccccccccg ggaaaggccc   180

aaggggggaa aatttttccg ggggtgggtn ggggggaacca atttaagggg ggggcccccg   240

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ctgtacttga actctaaaac tgttggagaa actcagtgct taccccaaca gattcatttc   180

aaatagctgt aaaaggtatg tttactccag aagaccagag ttgcttcttt tgaacttctc   240

attccttggg cctaggaacc ctcatcaccc tcatcccaac gtcaacccag atcttctcttt   300

Page 18

ccataaacag cactccctca ggcccctgcc tgacacaggc atagactgtc atgttggatt   360

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tttaggcggc accccaacaa caccaggccc tactttttcc aaggncgggg aagcccatgg     180

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tg                                                                    242
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gcagggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct     180

c                                                                     181
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aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag     180

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ttcgaccatg tgccttccca ggttgatgaa gacattgcta cacagtctgc agatcaggaa     120
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ggaagaattg tatgtgggag tttttaatgg tctcatttca ttggctataa ctcagttaca   180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga   240

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ttgaggcgaa aggactcgcg gatttgacgc ttgatgcggt tgcgctcgac ggcgagcttg   180

acgctctttt tgccgatcac caaacctagg cggggatgat caagctggtt atcgcgcgct   240

agcagcagga cacttttgcc cgggagcttt accgcttggg gagtcgaaga ctgccttgna   300

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gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta      180

gtcgggtact aaggcgttag cgaaggcgaa gcgccgatgt gaaggggggtt aatattcctc      240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag      300

tgggcgccag caggggcggc cttcgggcca aaccgaacct caggtcanac ttccaagaaa      360

agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg      420

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ggtgctcctg cgtttggact gtgcaggcct ctcctatgct gatgcgtctc cccactcctg   180

agctaatttc tgctctgctc cttctgtgac atgtggcagc gtgggaaata gccactgtcc   240

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tttaaaaatt tatgccatat gtccagcttc cagtcagtgc ttctggttag catgaggata     120

actagatttt actgtagatg gtagataaaa gtccagtgaa aagcaaagat gtgtaatgtt     180

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ttagcctata gaatttcaag ttngctagag gtttngctct ccatggtata agtttagcaa     240

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tgnaatacta ttgcctctta tatacacnac caannntgcg aagggcnann nnacctttnc   180

cantnnnctg gggncccacn nnngngaact gagagtggat cttgtgtacc tgacnnacca   240

gntntnnagn agggcgctca ctctgattgg tgcaccatgg ttacacagtg tgtgcaaaga   300

ccngnctatc tcactganga tgattgncag ngccnntggg tggcacnang ggnactgatg   360

ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat   420

aggttaccnc cttcnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa   480

ntctntcnct ataggcatga ttttnnncag tgcgtcagcc ttganaanga ancnnacttt   540

tgntagatga nnngntgctc ncccttgngg ctnacaaatt ccancaccnt tggtggcngc   600

agccnttaag ancacttntt ttgggttgcg ctnttggatg aattacnaat agnntgtttt   660

gttncaaggc ccttctgcna aatatgaana aaagngcnct tagcttttttg ngggaactgn   720

actggaaatt ttg   733

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<223> n is a, c, g, or t

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caagtacgcn agcnctgaan ctaaagcaag caagaaaaag                          100


<210>  54
<211>  515
<212>  DNA
<213>  Human

<400>  54
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agagccaagc taaaccccg ataccgacga gtaccagaac aggtaagcac cccgtctatg    120

tagatatggg aagattatag gaggcgacaa ctaccgagcc tggtgatagc tggtgtccaa    180

gaagagtctt agttcattta tttggcccag aaccctctaa tccccttgta atttatgtca    240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg    300

gcctaatagc agccaccatt aagaaagcgt tcgctccaca cccactacct aaaaatcgaa    360

tataactgac tcctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt    420

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gacaattaac tgccccaata tctacaatcc aaccc                              515


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<213>  Human


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<223>  n is a, c, g, or t

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cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga       120

agcctgccct cattagacca agacagcaag gtttnccctg gtcactagat gaaatt          176


<210>  56
<211>  317
<212>  DNA
<213>  Human


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atgtgggatg tgacctccta ggactcacct tgcacagctg ggtgcagcag ggataggtaa       120

ggatttgggg tttagaggta caattgcctt tttatggtta gagaaaggtc ctggggctgg       180

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct       240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtggtgg atgctggcag       300

acattgttat tgccatt                                                       317


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<212>  DNA
<213>  Human

<400>  57
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ctggactgga cactgtatac ccacatgcaa gatgaagttg cccccttaca tcctatacgc       120

aggagaattg cgtcatttaa agcctgttga cgcttttctc ccgcagacga atggaaagat       180

taattgggag tggggctga aacaattcg                                          209


<210>  58
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<211>   262
<212>   DNA
<213>   Human

<400>   58
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acctggtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat   120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaaat actcgggctg ggacacgatg   180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactggtccg cctgggtgac   240

agagcgagac tccatctcta at   262

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<212>   DNA
<213>   Human

<400>   59
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aaacctttat tgtcttacag gggggaacta gcgcggggct gaataaaacc tttggccctt   120

cccggggggag gggtatccgg tttataaacc ccaagggtat tttcttagca aaatacttaa   180

aaccggccgg ggttttata caaactggga acccactttt gaaaaatttt ggcctttga   240

tctgggatgg gaatatgagt ttttatacat ttcattttct ttttgggcaa aggcccggtt   300

aagtattccc ccccggggggg cctttacaaa aagggcggtt ttaaaagctt ttgggccccc   360

ctagggaatt gttttaacac ctaaaaaccc ctgcttccct taaaggggcg ttctttaatt   420

tgggggcggc   430

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<212>   DNA
<213>   Human

<400>   60
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atcctactag cttggaggat ttgaaccgat tatgaatacg caatactccc ggtcctcatg   120

tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca   180

tgattccgaa tcacccacag acagctcgat caccatacgt atcacccaac atatatacct   240

tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat   300

taaagtgagg ggactctcct aatttctgta agttgatttt tgcattctga   350

<210>   61
<211>   515
<212>   DNA
<213>   Human

<400> 61

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cactttcttt gagaattcaa catattgcaa gttaaaattt tcatagacta cacaagaaag       120

aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt       180

taaaaaggat tcattagttt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg       240

aagtagatcc aaatatacat ggtcagattg aatacaataa agatggcatc gtagcagtgg       300

agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa       360

atgaagttga ataataaaaa tatattctac actagcacaa attataaata aagcagtgat       420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa tttctttata       480

gtcttctaaa atatatgact ttatgaattc tgact                                 515
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<400> 62

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aagactttgg ttttataaat aaggaggtat atataaatta tatatatttc tgagctgagt       120

aataatccac cagatacaag tttgcatcaa cttctgtgaa atattttttt tccttttttgt      180

tgggcatttt tatggtctaa atatagaatg accaatgcct ctagaacaaa cttgacctgg       240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa       300

tttgttaaaa ttgatatatt gatatataaa acttcttttg ccagtgttgg tggcacacgc       360

ctttaatccc agcacttagg aggcagaggc agggtggatt tctgaatttg agggcaggct       420

agtctacaga gcaagttcca ggtcagccaa ggctatatat agaaactctg gcatgaaaaa       480

ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac       540

caaaccagac taaaccaaac caaaccagac cagaccagac cagaccagac cagaccagac       600

cagaccaaac t                                                           611
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<210> 63
<211> 291
<212> DNA
<213> Human

<400> 63

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taatgcgaat atacttcctc ttcttttttgc atggtcttgc ccagcctctg caatactgat       120

gaacacatgc tgaagatcat ctaactcaat atggcgcata tttctatgtc ttgctgccca       180

ggacatagga caacttcgtc gctcactagt tctaacatat taatgctggc gtaggtggag       240
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aactactgca catatactct tactcggagg ctgaggcacg aggatcactt g   291

<210> 64
<211> 309
<212> DNA
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<400> 64
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cattatcacc tctcactctc gcgtgttacc taactctccc tcgcagggga aatcactcca   120

tatatttcaa atgtcttgct aacagtggtt actttgctct atccttagct atacgtctcg   180

aggcacattg ttcctctatg ccccgctacg ctttgcccta gagctcggcg gtatctatat   240

cttaactgcc ctcttgatcc ttacgtgccg gagaaggtgg aggcagaaat tttgtcaaat   300

ctgattaga   309

<210> 65
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<213> Human

<400> 65
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tggaataaag tggaatagac tcgaatggaa tggaatgcaa tggaatggac tcgaatggaa   120

agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa   180

tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa   240

tgtaatggaa tagactcgaa tggaatggaa cgaaattt   278

<210> 66
<211> 142
<212> DNA
<213> Human

<400> 66
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tttttttaac tgtaggaggt ttataataat gctcatatgg aaaaataaaa catgtaaaaa   120

atagctagta aactcccccct gt   142

<210> 67
<211> 286
<212> DNA
<213> Human

<400> 67
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aaagatgatc tcctcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg   120

attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc   180

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ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgctccc   240

caaagctcca tttccttgaa agcagaagtg taatattact tcttag   286

<210> 68
<211> 179
<212> DNA
<213> Human

<400> 68
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tagaagtcat tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa   120

ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaat   179

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ttttgaattc taaactgtct ctgggtgggt gtgggtgcca ccaagagcat gtgttcatgt   180

agggagactg gtttttaca gttgtctatg agagagatga cagttgcctg gattatggtg   240

gtgacattgg agataagcag gtagacagat tctcagtgta ttaggagaga aaaatcaata   300

ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt   360

ctcaatttct gcatgagaaa aaaggtggac   390

<210> 70
<211> 481
<212> DNA
<213> Human

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tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg   180

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat   240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat   300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga   360

tgagatgaca tgaaataatg aaatgaaatt gaaatgagat aagatacgag ctgagatgca   420

atgagatgaa atgatgagat gaaatgaaat agtgaaatga aattgaaata aaatcgaaat   480

g   481

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ngacgcgccg tacaggntna attatggnan cttacatggn aaaggggcan ctcaatgtcc   120

cacag   125

<210>   72
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<212>   DNA
<213>   Human

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<223>   n is a, c, g, or t

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atgagatgaa atgttgaaaa gaaaggagga aatgatgagg tgagatgaaa tgatgagatg   120

aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga   180

cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa   240

tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa   300

ttgaaagatg agatgaaatg atgagatgaa atgaaatgtt gaaatgatga agagatgtga   360

catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga   420

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<210> 73
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<213> Human

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<222> (16)..(16)
<223> n is a, c, g, or t

<220>
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aaatgaaatt agatgaaatg taatgagatg aaatgaaatg acctaatgaa atgaaataat   120

gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa   180

tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga   240

gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga   300

tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga   360

aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat   420

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga   120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa   180

tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg   240

aatgatgaaa tgaaatgatg agatgagatg atgaaatgaa atggtgagat gaaatgatg   299

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<211> 155
<212> DNA
<213> Human

<400> 75
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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga   120

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<210> 76
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ctacttnaga ngaantcctc gcaaaatcct tgaatcaccg cttcagtgca gtgatatcac   120

cgccatgaaa tttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt   180

tatcggtacg aggaatggat gttcgatttc gtagaatacg cctgagagac ggcgaatact   240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga   300

aaatatgagg ggtggcaagg ttttgcctgt tacattctca aatggaagca aattagatat   360

gtcattg   367

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atagaaatca ttatttctgt gggatggata attgggccaa attgtaaaat attttaacta   120

tcagtgtttg gggtttattt ttaaaagaat agggtgccac cagatgttct ttagtggagg   180

agaaatgagg ccagagtgac tgcctagaaa attaagttgg taaattaatc actttttct   240

aggtcctttc ttagtct   257

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tattaccaaa atatttggac cattantaaa gantagggcc aacccnaatt tttcttgaaa     180

tttccgttaa atagccgtta aatgttttta cccatttcat attggatacc ttaaattata     240

ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc ttttctcctc     300

taccattatt gtcactttat gtttggaacc ccctttaccc ttccttaaag gaaaaaaagg     360

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<223> n is a, c, g, or t

<400> 79

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ccttgatgtt caagtattta agaccctatg cnaatatttt ttacctttc taataaacca     120

tgtttgtt                                                             128
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<210> 80

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ggccaggcct tcccttttaaa aaaaaatnac cgttttttngg gggangnaac ctttaaaagg   120

ggaaaanaaa tccttttttaa anggaantcc aagggaagga ncctgnncaa nacttcccccn   180

ccaataaaaa aaaccntttt ggaaangggg aaa   213

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tgatgaaatg agatgagatg agaagaaatg acttgatgag atgagataaa atgatgaaat   120

gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg   180

aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat   240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa   300

tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa   360

tgaaatgttg aaatgaaatg aagagatgta acatgaaatg agctgaaatg atgagatgaa   420

atgaaatgaa atgagattaa atg   443

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<212> DNA
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gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata   120

ntagggacct gctctataag cccatcataa tttattatga agttataaca agtaaaacag   180

taaggtattt ggcatggaat agagaaccca gaaacagacc caatgcatgg gtacaggata   240

taacacaggg aaatgaggga caatatatgg ttctgggata attatttata tggggaaaat   300

aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg   360

catgtgaaag gaaagacttt aaaacattta gaaaagtat tggaggctat gatcttgggg   420

taggaaagca tttcttttttt tt   442

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<211> 135
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aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga   120

aggaaggaag gaagg   135

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gagttgcctt ctgtaagtgc ccctactatc aaggtttcat ggaaaatcta ggcaaggcag   120

aacttcctca gaaggacaag agacaaagaa gtgggggagg ccctcctatc catagctgag   180

agggtttatt ctttgtggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc   240

aaccccagct agacagaact ttgtagattt tgggggggttt aaaaggcctc aagcaaattc   300

taaaactttc tttgaacccc ctggcatagg ctcagtttcc ctgact   346

<210> 85
<211> 100
<212> DNA
<213> Human

<400> 85
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gaaaagaaaa tggttttttt tgccgaaatc aaccgggtaa   100

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<211> 201
<212> DNA
<213> Human

<400> 86
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gaaaagagga agaaacgctt tttaggagtt aaggattaaa gtaaaaatta ttttgacata   120

attacctctt tttgtgacca ctcttaaagg ccaggaacat atttggagaa gcctagttgt   180

atgtaacagt gtggggtttc a   201

<210> 87
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<212> DNA
<213> Human

<400> 87
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tcttttaccc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg   180

ttaaccatcg caatcgccga ccgagtttaa ggaccactcc ccacctttct cattagttaa   240

ggagaacgct actttacccc atagacggag aaatcgctac tcaactacca ggcgcgcgcc   300

gtcgagtccc tcttcctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga   360

ttcttctaag cgtagcgcgt ctactccaat gttttcgtta atccagcccg aactaacgcc   420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag   480

aaaacaaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a   531

<210> 88
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<212> DNA
<213> Human

<400> 88
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cattcggtcc agtgcctcgc cctattagcc cttaagccca ccgtttctaa aactcccaga   120

acagccaaac cggtccgccc aaggcctccg tcgtttttata atatattccg tttacgtata   180

aggaacgaac ccccccttcat taccacggtc ccgcgtccgc ctccttctcc attcgcaaca   240

gttctattcc tttcagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa   300

gatagcaaag attacccagc ttctattcct cgccccagag ccgagtaaat cgaagtttat   360

agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa   420

tataaactta atgtccccctt tattctcccg gacgccccctt ttaaccactt cttcctatct   480

ttcgctaaca agccattgac ggcgctttgc cgcgcgggcc catctcgcgt   530

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ttccaccggc ctggttttgg tttttccata attaattaac caggggggncc anttaaaaaa     120

aattaaggna aggnttaaaa aatttaacca anggggggtt taaagggntt ttttttttta     180

aaaaaaaagg ttaaancccc cccttttttt ttgggttggg gtgggaaaat tttgggaanc     240

cttaacccccc gggttttgg gtttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa     300

ggaccggttt ccattttaat gggtattggg aa                                   332
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cggtggtaac tattaaaaca taagtttaat cggtatttaa aattttaaaa tcaaaaaaaa   120

taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt   180

ctcct   185

<210> 91
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<212> DNA
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ctaggggta cttgaaaatg ctagaccagg ataactccta agtgtatatc cttggcagac   120

tcgttatgct ttccaatcct gcttgcaata taagacacaa agtcagaata aagctcaaga   180

aaacagaacg tgcaggccat caagcgcaga gcctgctcat tggacaaccg caaagagtag   240

taagtgctgc cgctattcac acttagaaaa ggagaaccac ggggaaaaac caaattaatg   300

gggctgcttt ttgtcactct ggcatnagag aattgtgnng aaantttaac ttttgtaagc   360

ttgta   365

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aagtcaggat agtagttttc attccttaga tggtacaagt gttgagacaa atg             113


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<213>  Human

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ggtgaggtag ggggttgctg caagagcgga agttgaaaga tcttggaaaa attaaagaaa      180

cttcatagaa ccccatctct acaccaaaaa                                       210


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naaannnggn nctnggggggg ggaaantttt ggcccccccc cggggntttt ncctnaaaaa      240

aaanccnttt naaanacngn nanaattttn ccnnnncggg gaggngngga nnttttttt      300

tnaannagcc nttttttgnna naaaaannnt ggnccccccc ctattccnng gnttttngga      360

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ttttctctta tntgnngncn naacatctgc nngctctgnt annaanaatt ncataccgcn     240

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ntaaatgnga tgaattaatg atgagatgaa atgntgaatg ccggggtgnn tgagatgaat     720

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aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttgggggtt   180

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